

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of the claims in the application:

**Listing of claims:**

Claims 1-28 (Cancelled)

29. (Currently Amended) A network structure controlling device comprising:  
a memory; and  
a processor in communication with the memory, the memory comprising  
computer executable instructions, the computer executable instructions executable with  
the processor and comprising:

a function relocation unit configured to analyze, in response to an instruction of  
relocation, a plurality of node resources in a network a current available node resource  
based on statuses of the node resources in a network, to determine new node locations  
of node functions at least one node function, and to relocate the node functions at least  
one node function to the new node locations through an addition of executable code at  
the new node locations, the node functions relocated in accordance with a relocation  
plan;

the function relocation unit being further configured to transmit a transfer  
instruction to a first device for relocation of the at least one node function from the first  
device to a second device, the first device being configured to transmit node function  
definition data to the second device in response to receipt of the transfer instruction, the  
node function definition data comprising executable code that implements the at least  
one node function, the node resources comprising resources of the first and second  
devices;

a path restructure unit configured to restructure a structure of paths in the  
network into an optimum condition in accordance with statuses of link resources in the  
network and in response to an instruction of restructuring, wherein the path restructure

unit is configured to determine a restructuring plan for the structure of the paths based on an exchange of data on a draft relocation plan of the node functions at least one node function and data on a draft restructuring plan of the structure of the paths, the exchange of data being between the function relocation unit and the path restructure unit; and

    a control unit configured to determine whether transmission of the instruction of relocation to the function relocation unit is necessary and whether transmission of the instruction of restructuring to the path restructure unit is necessary based on the statuses of the node resources and the statuses of link resources, wherein the control unit is further configured to selectively transmit the instruction of relocation and the instruction of restructuring.

30. (Currently Amended) The network structure controlling device of claim 29, wherein the node functions include a node function, the node resources include node resources at a first device and a second device in the network, relocation of the node functions to the new node locations includes a relocation of the node function from the first device to the second device, and the function relocation unit is configured to determine the first device and the second device.

31. (Currently Amended) The network structure controlling device of claim 30, wherein the control unit is configured to:

    transmit the instruction of relocation in response to a determination that [[a]] relocation of the at least one node function from the first device to the second device is necessary; and

    transmit the instruction of restructuring in response to a determination that [[a]] reconfiguration of a communication path formed in the network is necessary.

32. (Currently Amended) The network structure controlling device of claim 30, wherein

    the function relocation unit is configured to generate a provisional determination of the first device and the second device, the draft relocation plan of the node functions

at least one node function comprising the provisional determination of the first device and the second device; and

the path restructure unit is configured to generate a final determination of [[the]] a new communication path based on the provisional determination of the first device and the second device, the restructuring plan of the structure of the paths comprising the final determination of the new communication path.

33. (Currently Amended) The network structure controlling device of claim 30 further comprising an exclusive control unit configured to prevent a node resource and a link resource of the first device and the second device from being controlled by another network structure controlling device in the network in response to a determination by the control unit that relocation of the at least one node function of the first device in the network is necessary.

34. (Currently Amended) The network structure controlling device of claim 30, wherein the at least one node function comprises at least one of a firewall function, a mobility control function, a call control function, a data copy function, a multicast function, a mobile anchor function, or a mobile buffering function.

35. (New) The network structure controlling device of claim 29, wherein the first device is further configured to transmit both user data and the node function definition data directly from the first device to the second device, the user data being data processed in response to execution of the executable code that implements the at least one node function.

36. (New) The network structure controlling device of claim 35, wherein the control unit is further configured to selectively transmit the instruction of relocation in response to receipt of an adaptive control request indicative of detection of movement of a user terminal from a first coverage area to a second coverage area, wherein relocation of the at least one node function comprises relocation of user data from a first service node that serves the first coverage area to a second service node that serves the second

coverage area, the node resources include node resources of the first service node and the second service node, and the user data is associated with the user terminal.

37. (New) The network structure controlling device of claim 29, wherein the control unit is further configured to determine whether transmission of the instruction of relocation to the function relocation unit is necessary in response to detection of movement of a user terminal from a first coverage area to a second coverage area.

38. (New) The network structure controlling device of claim 29, wherein the at least one node function is at least one network service unavailable at the second device prior to both receipt of the executable code from the first device and addition of the executable code to the second device.